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			MOORTHY, ARAVIND K	
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			2131	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	09/981,182	SCHNIZLEIN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Aravind K. Moorthy	2131			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period verailure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>02 Al</u> This action is FINAL . 2b)☑ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1,3-8,10,11 and 26-38 is/are pending 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3-8,10,11 and 26-38 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 16 October 2001 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

DETAILED ACTION

1. This is in response to the arguments filed on 11 March 2008.

2. Claims 1, 3-8, 10, 11 and 26-38 are pending in the application.

3. Claims 1, 3-8, 10, 11 and 26-38 have been rejected.

4. Claims 2, 9 and 12-25 have been cancelled.

Response to Arguments

5. Applicant's arguments with respect to claims 1, 3-8, 10, 11 and 26-38 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1, 3, 6, 7, 9-11, 26-30, 32-35, 37 and 38 are rejected under 35 U.S.C. 102(b) as being anticipated by Wong et al U.S. Patent No. 6,073,178.

As to claim 1, Wong et al discloses a method of assigning a network address to a host based on authentication for a physical connection between the host and an intermediate device, the method comprising the computer-implemented steps of:

receiving, at a router hosting an authenticator process for the host, from a first server that provides authentication and authorization, in response to a request for authentication for the physical connection, first data indicating at least some of authentication and authorization information (i.e. If a downstream packet is

detected in step 804, execution of method 800 continues at step 806 where the router 106 extracts the packet's destination address. Using this destination address, the router 106, in step 808 "looks up" the trusted identifier of the client system 102 that is associated with the destination address of the received packet (this association is formed by the router 106 during execution of method 600). In step 810, a test is performed to ascertain whether a trusted identifier was actually located in step 808. If a trusted identifier was located in step 808, execution of method 800 continues at step 812 where the router 106 forwards the received packet to client system associated with the trusted identifier. In the alternative, if no trusted identifier is associated with the destination address of the packet, the router 106 discards the packet in step 814) [column 8, 53-67];

receiving, at a DHCP relay agent process of the router, from the host, a DHCP discovery message for discovering a logical network address for the host (i.e. For clarity, the steps performed by the router 106 for a preferred embodiment of the IP address learning method are shown as method 700 of FIG. 7. More specifically, method 700 begins with step 702 where the router 106 receives a message. In step 704 the received message is examined, by the router 106, to determine if the message is a DHCPDISCOVER message. In the affirmative case, execution of method 700 continues at step 706 where the router 106 encodes the trusted identifier of the client system 102 sending the DHCPDISCOVER message into the vendor-specific information included in the options field 508 of the

DHCPDISCOVER message. The router 106 then forwards the DHCPDISCOVER message in step 708) [column 8, lines 3-15];

generating at the DHCP relay agent process a second message that comprises the DHCP discovery message and the first data (i.e. In step 624, the router 106 receives the DHCPREQUEST message and forwards the message to the DHCP server 114. In step 626, the DHCP server system 114 receives the DHCPREQUEST message. Subsequently, in step 628, the DHCP server system 114 responds to the DHCPREQUEST message by formulating a DHCPACK message. The DHCPACK message is preferably constructed using format 500 with op 502 set to BOOTREPLY and DHCPACK encoded in the options field 508. The chaddr field 506 and vendor-specific information included in the options field 508 of the DHCPACK message are copied from the DHCPREQUEST message. As a result, the trusted identifier is now included in the DHCPACK message. Additionally, the yiaddr field 504 is, once again, set to the IP address that the DHCP server 114 has allocated for the use of the client system 102. In step 628, the DHCP server 114 sends the DHCPACK message to the router 106) [column 7, lines 25-41]; and

sending the second message from the DHCP relay agent process to a DHCP server that provides the logical network address for the host [column 7, lines 25-41].

wherein generating the second message further comprises the step of sending a third message, from the authenticator process to the relay

agent process, that contains at least some of the authentication and authorization information based on the first data (i.e. In step 630, the router 106 receives the DHCPACK message. The router 106 recognizes that the received message is a DHCPACK message. Accordingly, the router 106 extracts the trusted identifier from the vendor-specific information included in the options field 508 of the DHCPACK message. The router 106 also extracts the IP address allocated by the DHCP server 114 from the yiaddr field 504 of the DHCPACK message. The router 106 then forms an association between the extracted trusted identifier and the extracted IP address. This association may be maintained in a list or other suitable data structure within memory 206 of computer system 202. Preferably, the association formed between the extracted trusted identifier and the extracted IP address is two-way. Using the two-way association the router 106 can determine the IP addresses that are associated with a modem 104. The router 106 can also determine which modem 104 is associated with an IP address. Effectively, by forming this association, the router 106 has learned the IP address allocated by the DHCP server 114. In step 632, the router 106 forwards the DHCPACK message to the modem 104 for receipt by client system 102. Importantly, the message is forwarded exclusively to the modem identified by the trusted identifier embedded in the vendor-specific options field of the DHCPACK message) [column 7, lines 42-65].

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As to claims 3, 29 and 34, Wong et al discloses a method as recited, wherein:

step of generating the second message further comprises the steps of:

storing second data based on the first data by the authenticator process [column 7, lines 42-65and

retrieving the second data by the relay agent process in response to the step of receiving the first message [column 7, lines 42-65].

As to claim 6, Wong et al discloses that the physical connection comprises an Ethernet interface card on the router [column 5, lines 11-25].

As to claims 7, 30 and 35, Wong et al discloses that the physical connection comprises a wireless Ethernet encryption key and time slot [column 5, lines 11-2].

As to claim 9, Wong et al discloses that the second message is based on a dynamic host configuration protocol (DHCP) [column 5, lines 37-51].

As to claims 10, 32 and 37, Wong et al discloses that the first data includes user class data indicating a particular group of one or more authorized users of the host [column 6, lines 16-28]. Wong et al discloses that the step of generating the second message is further based on the user class data [column 6, lines 16-28]

As to claims 11, 33 and 38, Wong et al discloses a method as recited, wherein:

the first data includes credential data indicating authentication is performed by the first server [column 8, lines 53-67], and

the step of generating the second message is further based on the credential data [column 8, lines 53-67].

As to claim 26, Wong et al discloses an apparatus for assigning a network address to a host based on authentication for a physical connection between the host and an intermediate device, comprising:

means for receiving, at a router hosting an authenticator process for the host, from a first server that provides authentication and authorization, in response to a request for authentication for the physical connection, first data indicating at least some of authentication and authorization information (i.e. If a downstream packet is detected in step 804, execution of method 800 continues at step 806 where the router 106 extracts the packet's destination address. Using this destination address, the router 106, in step 808 "looks up" the trusted identifier of the client system 102 that is associated with the destination address of the received packet (this association is formed by the router 106 during execution of method 600). In step 810, a test is performed to ascertain whether a trusted identifier was actually located in step 808. If a trusted identifier was located in step 808, execution of method 800 continues at step 812 where the router 106 forwards the received packet to client system associated with the trusted identifier. In the alternative, if no trusted identifier is associated with the destination address of the packet, the router 106 discards the packet in step 814) [column 8, 53-67];

means for receiving, at a DHCP relay agent process of the router, from the host, a DHCP discovery message for discovering a logical network address for the host (i.e. For clarity, the steps performed by the router 106 for a preferred

embodiment of the IP address learning method are shown as method 700 of FIG.

7. More specifically, method 700 begins with step 702 where the router 106 receives a message. In step 704 the received message is examined, by the router 106, to determine if the message is a DHCPDISCOVER message. In the affirmative case, execution of method 700 continues at step 706 where the router 106 encodes the trusted identifier of the client system 102 sending the DHCPDISCOVER message into the vendor-specific information included in the options field 508 of the DHCPDISCOVER message. The router 106 then forwards the DHCPDISCOVER message in step 708) [column 8, lines 3-15];

means for generating at the DHCP relay agent process a second message that comprises the DHCP discovery message and the first data (i.e. In step 624, the router 106 receives the DHCPREQUEST message and forwards the message to the DHCP server 114. In step 626, the DHCP server system 114 receives the DHCPREQUEST message. Subsequently, in step 628, the DHCP server system 114 responds to the DHCPREQUEST message by formulating a DHCPACK message. The DHCPACK message is preferably constructed using format 500 with op 502 set to BOOTREPLY and DHCPACK encoded in the options field 508. The chaddr field 506 and vendor-specific information included in the options field 508 of the DHCPACK message are copied from the DHCPREQUEST message. As a result, the trusted identifier is now included in the DHCPACK message. Additionally, the yiaddr field 504 is, once again, set to the IP address that the DHCP server 114 has allocated for the use of the client system 102. In

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step 628, the DHCP server 114 sends the DHCPACK message to the router 106) [column 7, lines 25-41]; and

means for sending the second message from the DHCP relay agent process to a DHCP server that provides the logical network address for the host [column 7, lines 25-41];

wherein generating the second message further comprises the step of sending a third message, from the authenticator process to the relay agent process, that contains at lest some of the authentication and authorization information based on the first data (i.e. In step 630, the router 106 receives the DHCPACK message. The router 106 recognizes that the received message is a DHCPACK message. Accordingly, the router 106 extracts the trusted identifier from the vendor-specific information included in the options field 508 of the DHCPACK message. The router 106 also extracts the IP address allocated by the DHCP server 114 from the yiaddr field 504 of the DHCPACK message. The router 106 then forms an association between the extracted trusted identifier and the extracted IP address. This association may be maintained in a list or other suitable data structure within memory 206 of computer system 202. Preferably, the association formed between the extracted trusted identifier and the extracted IP address is two-way. Using the two-way association the router 106 can determine the IP addresses that are associated with a modem 104. The router 106 can also determine which modem 104 is

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associated with an IP address. Effectively, by forming this association, the router 106 has learned the IP address allocated by the DHCP server 114. In step 632, the router 106 forwards the DHCPACK message to the modem 104 for receipt by client system 102. Importantly, the message is forwarded exclusively to the modem identified by the trusted identifier embedded in the vendor-specific options field of the DHCPACK message) [column 7, lines 42-65].

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As to claim 27, Wong et al discloses an apparatus for assigning a network address to a host based on authentication for a physical connection between the host and an intermediate device, comprising:

a network interface that is coupled to a data network for receiving one or more packet flows therefrom [column 5, lines 11-25];

a physical connection that is coupled to the host [column 5, lines 11-25]; a processor [column 5, lines 11-25];

one or more stored sequences of instructions which, when executed by the processor, cause the processor to carry out the steps of:

receiving, at an authenticator process for the host, through the network interface from a first server that provides authentication and authorization, in response to a request for authentication for the physical connection, first data indicating at least some of authentication and authorization information (i.e. If a downstream packet is detected in step 804, execution of method 800 continues at step 806 where the router 106

extracts the packet's destination address. Using this destination address, the router 106, in step 808 "looks up" the trusted identifier of the client system 102 that is associated with the destination address of the received packet (this association is formed by the router 106 during execution of method 600). In step 810, a test is performed to ascertain whether a trusted identifier was actually located in step 808. If a trusted identifier was located in step 808, execution of method 800 continues at step 812 where the router 106 forwards the received packet to client system associated with the trusted identifier. In the alternative, if no trusted identifier is associated with the destination address of the packet, the router 106 discards the packet in step 814) [column 8, 53-67];

receiving, at a DHCP relay agent process, through the physical connection from the host, a DHCP discovery message for discovering a logical network address for the host (i.e. For clarity, the steps performed by the router 106 for a preferred embodiment of the IP address learning method are shown as method 700 of FIG. 7. More specifically, method 700 begins with step 702 where the router 106 receives a message. In step 704 the received message is examined, by the router 106, to determine if the message is a DHCPDISCOVER message. In the affirmative case, execution of method 700 continues at step 706 where the router 106 encodes the trusted identifier of the client system 102 sending the DHCPDISCOVER message into the vendor-specific information included

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in the options field 508 of the DHCPDISCOVER message. The router 106 then forwards the DHCPDISCOVER message in step 708) [column 8, lines 3-15];

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generating at the DHCP relay agent process a second message that comprises the DHCP discovery message and the first data (i.e. In step 624, the router 106 receives the DHCPREQUEST message and forwards the message to the DHCP server 114. In step 626, the DHCP server system 114 receives the DHCPREQUEST message. Subsequently, in step 628, the DHCP server system 114 responds to the DHCPREQUEST message by formulating a DHCPACK message. The DHCPACK message is preferably constructed using format 500 with op 502 set to BOOTREPLY and DHCPACK encoded in the options field 508. The chaddr field 506 and vendor-specific information included in the options field 508 of the DHCPACK message are copied from the DHCPREQUEST message. As a result, the trusted identifier is now included in the DHCPACK message. Additionally, the yiaddr field 504 is, once again, set to the IP address that the DHCP server 114 has allocated for the use of the client system 102. In step 628, the DHCP server 114 sends the DHCPACK message to the router 106) [column 7, lines 25-41]; and

sending through the network interface the second message from the DHCP relay agent process to a DHCP server that provides the logical network address for the host [column 7, lines 25-41];

wherein generating the second message further comprises the step of sending a third message, from the authenticator process to the relay agent process, that contains at least some of the authentication and authorization information based on the first data (i.e. In step 630, the router 106 receives the DHCPACK message. The router 106 recognizes that the received message is a DHCPACK message. Accordingly, the router 106 extracts the trusted identifier from the vendor-specific information included in the options field 508 of the DHCPACK message. The router 106 also extracts the IP address allocated by the DHCP server 114 from the yiaddr field 504 of the DHCPACK message. The router 106 then forms an association between the extracted trusted identifier and the extracted IP address. This association may be maintained in a list or other suitable data structure within memory 206 of computer system 202. Preferably, the association formed between the extracted trusted identifier and the extracted IP address is two-way. Using the two-way association the router 106 can determine the IP addresses that are associated with a modem 104. The router 106 can also determine which modem 104 is associated with an IP address. Effectively, by forming this association, the router 106 has learned the IP address allocated by the DHCP server 114. In step 632, the router 106 forwards the DHCPACK message to the modem 104 for receipt by client system 102. Importantly, the message is forwarded exclusively to the modem identified by the trusted identifier

embedded in the vendor-specific options field of the DHCPACK message) [column 7, lines 42-65].

As to claim 28, Wong et al discloses a computer-readable storage medium carrying one or more sequences of instructions for assigning a network address to a host based on authentication for a physical connection between the host and an intermediate device, which instructions, when executed by one or more processors, cause the one or more processors to carry out the steps of:

receiving, at a router hosting an authenticator process for the host, from a first server that provides authentication and authorization, in response to a request for authentication for the physical connection, first data indicating at least some of authentication and authorization information (i.e. If a downstream packet is detected in step 804, execution of method 800 continues at step 806 where the router 106 extracts the packet's destination address. Using this destination address, the router 106, in step 808 "looks up" the trusted identifier of the client system 102 that is associated with the destination address of the received packet (this association is formed by the router 106 during execution of method 600). In step 810, a test is performed to ascertain whether a trusted identifier was actually located in step 808. If a trusted identifier was located in step 808, execution of method 800 continues at step 812 where the router 106 forwards the received packet to client system associated with the trusted identifier. In the alternative, if no trusted identifier is associated with the destination address of the packet, the router 106 discards the packet in step 814) [column 8, 53-67];

receiving, at a DHCP relay agent process of the router, from the host, a DHCP discovery message for discovering a logical network address for the host (i.e. For clarity, the steps performed by the router 106 for a preferred embodiment of the IP address learning method are shown as method 700 of FIG. 7. More specifically, method 700 begins with step 702 where the router 106 receives a message. In step 704 the received message is examined, by the router 106, to determine if the message is a DHCPDISCOVER message. In the affirmative case, execution of method 700 continues at step 706 where the router 106 encodes the trusted identifier of the client system 102 sending the DHCPDISCOVER message into the vendor-specific information included in the options field 508 of the DHCPDISCOVER message. The router 106 then forwards the DHCPDISCOVER message in step 708) [column 8, lines 3-15];

generating at the DHCP relay agent process a second message that comprises the DHCP discovery message and the first data (i.e. In step 624, the router 106 receives the DHCPREQUEST message and forwards the message to the DHCP server 114. In step 626, the DHCP server system 114 receives the DHCPREQUEST message. Subsequently, in step 628, the DHCP server system 114 responds to the DHCPREQUEST message by formulating a DHCPACK message. The DHCPACK message is preferably constructed using format 500 with op 502 set to BOOTREPLY and DHCPACK encoded in the options field 508. The chaddr field 506 and vendor-specific information included in the options field 508 of the DHCPACK message are copied from the DHCPREQUEST

message. As a result, the trusted identifier is now included in the DHCPACK message. Additionally, the yiaddr field 504 is, once again, set to the IP address that the DHCP server 114 has allocated for the use of the client system 102. In step 628, the DHCP server 114 sends the DHCPACK message to the router 106) [column 7, lines 25-41]; and

sending the second message from the DHCP relay agent process to a DHCP server that provides the logical network address for the host [column 7, lines 25-41];

wherein generating the second message further comprises sending a third message, from the authenticator process to the relay agent process, that contains at least some of the authentication and authorization information based on the first data (i.e. In step 630, the router 106 receives the DHCPACK message. The router 106 recognizes that the received message is a DHCPACK message. Accordingly, the router 106 extracts the trusted identifier from the vendor-specific information included in the options field 508 of the DHCPACK message. The router 106 also extracts the IP address allocated by the DHCP server 114 from the yiaddr field 504 of the DHCPACK message. The router 106 then forms an association between the extracted trusted identifier and the extracted IP address. This association may be maintained in a list or other suitable data structure within memory 206 of computer system 202. Preferably, the association formed between the extracted trusted identifier and the extracted IP

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address is two-way. Using the two-way association the router 106 can determine the IP addresses that are associated with a modem 104. The router 106 can also determine which modem 104 is associated with an IP address. Effectively, by forming this association, the router 106 has learned the IP address allocated by the DHCP server 114. In step 632, the router 106 forwards the DHCPACK message to the modem 104 for receipt by client system 102. Importantly, the message is forwarded exclusively to the modem identified by the trusted identifier embedded in the vendor-specific options field of the DHCPACK message) [column 7, lines 42-65].

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

7. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wong et

al U.S. Patent No. 6,073,178 as applied to claim 1 above, and further in view of Park US

2002/0026573 A1.

As to claims 4 and 5, Wong et al does not teach that the first server is an authentication,

authorization and accounting server. Wong et al does not teach that that the first server is a

RADIUS protocol server.

Park teaches an authentication, authorization and accounting (AAA) server that uses the

RADIUS protocol [0013.

Therefore, it would have been obvious to a person having ordinary skill in the art at the

time the invention was made to have modified Wong et al so that the first server sould have been

an AAA server that utilized the RADIUS protocol.

It would have been obvious to a person having ordinary skill in the art at the time the

invention was made to have modified Wong et al by the teaching of Park because the RADIUS

protocol message has an authenticator field for authenticating the value of the authenticator is a

value that the Foreign Agent produces arbitrarily. This value is not to be repeated; a value that

has been used beforehand should not be used again. The reason why the authenticator is used as

an arbitrary value is to prevent a hacker from stealing a message for malicious purposes. If the authenticator were fixed according to a message, a hacker could get a normal access-accept message from the AAA server by using the authenticator of a message produced on the basis of the commonly held secret key even though the hacker is not privy to the value of the shared secret key. Thus, the authenticator value needs to be changed every time a message is generated, thereby preventing the hacker from attacking [0013].

8. Claims 8, 31 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wong et al U.S. Patent No. 6,073,178 as applied to claims 1, 26 and 27 above, and further in view of Bahl et al U.S. Patent No. 6,782,422 B1.

As to claims 8, 31 and 36, Wong et al does not teach that the request for authentication is based on an Institute of Electrical and Electronics Engineers (IEEE) 802.1x standard.

Bahl et al teaches authentication based on an Institute of Electrical and Electronics Engineers (IEEE) 802.1x standard [column 11, lines 52-58].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Wong et al so that the request for authentication was based on an Institute of Electrical and Electronics Engineers (IEEE) 802.1x standard.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Wong et al by the teaching of Bahl et al because that standard of protocol is more secure connection and higher level of authentication [column 11, lines 52-58].

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Conclusion

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Aravind K. Moorthy whose telephone number is 571-272-3793.

The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aravind K Moorthy/

Examiner, Art Unit 2131

/Ayaz R. Sheikh/

Supervisory Patent Examiner, Art Unit 2131